

Diversions Effects on Delta Smelt: Existing (Baseline) Conditions							WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	-1	-1	-1
Agricultural diversions	0	0	0	0	0	0	0	-1	-2	-2	-2	0
								1				

Diversions Effects on Delta Smelt: No Action Conditions					WET YEARS							
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1
Agricultural diversions	0	0	0	0	0	-1	-1	-2	-2	-2	-2	0

Diversions Effects on Delta Smelt: Common Programs							WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	1

Diversions Effects on Delta Smelt: Alternative 1												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep											
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0											
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0											
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0											
Handling	0	0	0	0	0	0	0	0	0	0	0	0											
Food supply	1	1	1	1	1	2	2	2	2	1	1	1											
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	1	0	0											
Water quality (toxics)	0	0	0	0	0	0	0	-1	-1	-1	-1	0											
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0											
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	-2	-1											
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2	1											

Diversions Effects on Delta Smelt: Alternative 2												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep											
Entrainment	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0											
Hydrodynamics	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0											
Predation	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0											
Handling	0	0	0	0	0	0	0	0	0	0	0	0											
Food supply	1	1	1	1	1	2	2	2	2	1	1	1											
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0											
Water quality (toxics)	0	0	0	0	0	0	0	-1	-1	-1	-1	0											
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0											
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	-2	-2											
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2	1											

Diversions Effects on Delta Smelt: Alternative 3												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep											
Entrainment	1	1	2	2	2	2	3	3	2	1	1	1											
Hydrodynamics	1	1	1	2	3	3	3	3	3	1	1	1											
Predation	0	0	0	0	0	0	0	0	0	0	0	0											
Handling	0	0	0	0	0	0	0	0	0	0	0	0											
Food supply	1	1	1	1	1	2	2	2	2	1	1	1											
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	2	1	1	1											
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0											
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0											
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	-2	-2											
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2	1											

Diversiion Effects on Delta Smelt: Existing (Baseline) Conditions										DRY YEARS		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Handling	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Food supply	0	-1	-1	-1	-2	-3	-3	-3	-3	-3	-2	-1
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxics)	-1	0	0	-1	-1	-1	-1	-1	-2	-2	-2	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	0	0	-2	-2	-3	-3	-2	0

Diversiion Effects on Delta Smelt: No Action Conditions										DRY YEARS		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Predation	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Handling	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Food supply	0	-1	-2	-2	-2	-3	-3	-3	-3	-3	-2	-1
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxics)	-1	0	0	-1	-1	-1	-1	-1	-2	-2	-2	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	-1	-1	0	0	1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	-1	-1	-3	-3	-3	-3	-2	0

Diversiion Effects on Delta Smelt: Common Programs										DRY YEARS		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Handling	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Food supply	1	0	0	0	-1	-1	-1	-1	-1	-1	-1	0
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	2	2	2	2	2	1

Diversions Effects on Delta Smelt: Alternative 1										DRY YEARS			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Predation	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Handling	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	0	0	0	0	
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	0	
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	
WQ (salinity)	-1	-1	-1	-1	0	0	1	-1	-1	-1	-1	-1	
Agricultural diversions	1	1	1	1	0	0	1	1	2	2	2	1	

Diversions Effects on Delta Smelt: Alternative 2										DRY YEARS			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0	
Hydrodynamics	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0	
Predation	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0	
Handling	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0	
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
Shallow/ nearshore habitat	0	0	0	0	-1	-1	-1	-1	0	0	0	0	
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	0	
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	
WQ (salinity)	-1	-1	-1	-2	-1	-1	0	-2	-2	-1	-1	-1	
Agricultural diversions	1	1	1	1	0	0	1	1	2	2	2	1	

Diversions Effects on Delta Smelt: Alternative 3				DRY YEARS								
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	1	1	1	1	2	2	3	3	2	1	1	1
Hydrodynamics	1	1	0	0	0	-1	2	2	2	2	2	1
Predation	0	0	0	0	0	1	1	1	1	1	0	0
Handling	1	1	1	1	2	2	3	3	2	1	1	1
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	1	1	0
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	-1	-3	-2	-2	-1	-3	-3	-2	-1	-1
Agricultural diversions	1	1	1	1	0	0	1	1	2	2	2	1

# Net Effects Matricies with Common Programs included

## Net Effects Matricies with Common Programs included

### No Action Conditions - Existing

### WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	-1	-1	0	0	0	-1	-1	0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	-8
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	0	0	0	0	0	-1	-1	-1	0	0	0	0	-3

### Common Programs - Existing

### WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	11
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	1	3	4	4	4	1	23

## Net Effects Matricies with Common Programs included

Alternative 1 - Existing				WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	-1	-1	0	0	0	-1	-1	0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	-8
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	11
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20

Alternative 2 - Existing				WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	-1	-1	0	0	-1	-1	0	-7
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Predation	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	0	0	0	0	6
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20

Alternative 3 - Existing				WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	3	3	3	3	4	6	4	3	2	1	34
Hydrodynamics	1	1	2	3	4	4	4	4	2	2	2	1	30
Predation	0	0	1	1	1	1	1	1	1	1	1	0	9
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	2	2	3	3	3	3	2	1	1	0	20
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20

Net Effects Matrices with Common Programs included

Net Effects Matrices with Common Programs included												
No Action Conditions - Existing												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	0	0	0	0	0	0
Hydrodynamics	0	0	-1	-1	-1	-1	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	0	0	0	0	0	0
Handling	0	0	-1	-1	-1	-1	0	0	0	0	0	0
Food supply	0	0	-1	-1	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-1	-1	-1	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	-1	-1	-1	-1	0	0	0	0

Common Programs - Existing												
No Action Conditions - Existing												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	0	0	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	2	2	1	1
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	0	0	0	0
Water quality (toxics)	1	0	0	1	1	1	1	1	1	1	1	1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	4	4	5	5	4	1

Net Effects Matrices with Common Programs included

**Alternative 1 - Existing**

**DRY YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Hydrodynamics	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Predation	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Handling	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Food supply	1	1	0	0	1	1	2	2	2	2	1	1	15
Shallow/ nearshore habitat	0	0	1	1	1	2	2	2	0	0	0	0	10
	1	0	0	1	1	1	1	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Agricultural diversions	1	1	1	1	1	0	0	3	5	5	4	1	25

**Alternative 2 - Existing**

**DRY YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-2	-2	-2	-2	-1	-1	0	0	0	0	-8
Hydrodynamics	0	0	-2	-2	-2	-2	-1	-1	0	0	0	0	-8
Predation	0	0	-2	-2	-2	-2	-1	-1	0	0	0	0	-8
Handling	0	0	-2	-2	-2	-2	-1	-1	0	0	0	0	-8
Food supply	1	1	0	0	1	1	2	2	2	2	1	1	15
Shallow/ nearshore habitat	0	0	1	1	1	0	0	0	0	0	0	0	2
Water quality (toxics)	1	0	0	1	1	1	1	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-2	-2	-2	-2	-1	-1	-1	0	0	-10
Agricultural diversions	1	1	1	1	1	0	0	3	5	5	4	1	25

**Alternative 3 - Existing**

**DRY YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	2	2	3	4	5	6	5	4	3	1	37
Hydrodynamics	1	1	1	1	1	1	4	5	5	5	4	1	30
Predation	0	0	1	1	1	3	3	4	4	4	2	0	23
Handling	1	1	2	2	3	4	5	6	5	4	3	1	37
Food supply	1	1	0	0	1	2	2	2	2	2	1	1	15
Shallow/ nearshore habitat	0	0	2	2	3	3	3	3	1	1	1	0	19
Water quality (toxics)	1	0	0	1	1	1	1	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-3	-3	-3	-2	-2	-2	-1	0	0	-17
Agricultural diversions	1	1	1	1	1	0	0	3	5	5	4	1	25



**AlternativeNet Effects Matricies WITHOUT Common Programs included**

**AlternativeNet Effects Matricies WITHOUT Common Programs included**

(Alternative 1 - Common Programs) - Existing												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total										
Entrainment	0	0	1	1	0	0	1	3	2	1	0	0	9										
Hydrodynamics	0	0	1	1	0	0	1	-1	0	-1	0	0	1										
Predation	0	0	1	1	1	1	1	1	1	1	1	0	9										
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0										
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0										
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	1	0	0	0	6										
Water quality (toxics)	0	0	0	0	0	0	1	1	1	1	1	0	5										
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0										
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	0	0	-1										
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	0	4										

(Alternative 2 - Common Programs) - Existing												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total										
Entrainment	0	0	0	0	0	0	0	3	2	1	0	0	6										
Hydrodynamics	0	0	0	0	0	0	0	-1	0	-1	0	0	-2										
Predation	0	0	0	0	0	0	0	-1	0	-1	0	0	-2										
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0										
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0										
Shallow/ nearshore habitat	0	0	1	1	0	0	0	0	-1	0	0	0	1										
Water quality (toxics)	0	0	0	0	0	0	1	1	1	1	1	0	5										
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0										
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	0	0	-1										
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	0	4										

(Alternative 3 - Common Programs) - Existing												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total										
Entrainment	1	1	4	4	4	4	5	9	6	5	3	1	47										
Hydrodynamics	1	1	3	4	5	5	5	5	3	3	3	1	39										
Predation	0	0	2	2	2	2	2	2	2	2	2	0	18										
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0										
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0										
Shallow/ nearshore habitat	0	0	2	2	2	2	2	2	1	1	1	0	15										
Water quality (toxics)	0	0	0	0	0	0	1	1	1	1	1	0	5										
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0										
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	0	0	-1										
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	0	4										

**AlternativeNet Effects Matricies WITHOUT Common Programs included**

**AlternativeNet Effects Matricies WITHOUT Common Programs included**

(Alternative 1 - Common Programs) - Existing							DRY YEARS						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	1	2	3	3	3	2	0	14
Hydrodynamics	0	0	0	0	0	1	2	3	3	3	2	0	14
Predation	0	0	0	0	0	1	2	3	3	3	2	0	14
Handling	0	0	0	0	0	1	2	3	3	3	2	0	14
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	21
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	0	0	0	0	6
Water quality (toxics)	1	0	0	1	1	1	1	1	2	2	2	1	13
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	1	1	-1	-1	-2	-2	-1	1	1	1	1	1	0
Agricultural diversions	0	0	0	0	-1	-1	1	1	3	3	2	0	8

(Alternative 2 - Common Programs) - Existing										DRY YEARS				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total	
Entrainment	0	0	-1	-1	-1	1	1	3	3	3	2	0	10	
Hydrodynamics	0	0	-1	-1	-1	1	1	3	3	3	2	0	10	
Predation	0	0	-1	-1	-1	1	1	3	3	3	2	0	10	
Handling	0	0	-1	-1	-1	1	1	3	3	3	2	0	10	
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	21	
Shallow/ nearshore habitat	0	0	-1	1	-1	-1	-1	-1	0	0	0	0	-2	
Water quality (toxics)	1	0	0	1	1	1	1	1	2	2	2	1	13	
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0	
WQ (salinity)	1	1	-1	-2	-3	-3	-2	0	0	1	1	1	-6	
Agricultural diversions	0	0	0	0	-1	-1	1	1	3	3	2	0	8	

Alternative 3 - Existing				DRY YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	3	3	4	6	7	9	8	7	5	1	55
Hydrodynamics	1	1	2	2	2	3	6	8	8	8	6	1	48
Predation	0	0	2	2	2	5	5	7	7	7	4	0	41
Handling	1	1	3	3	4	6	7	9	8	7	5	1	55
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	21
Shallow/ nearshore habitat	0	0	2	2	2	2	2	2	1	1	1	0	15
Water quality (toxics)	1	0	0	1	1	1	1	1	2	2	2	1	13
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	1	1	-1	-3	-4	-4	-3	-1	-1	0	1	1	-13
Agricultural diversions	0	0	0	0	-1	-1	1	1	3	3	2	0	8

Diversions Effects on Delta Smelt - Existing (Baseline) Conditions										WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep							
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0							
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0							
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0							
Handling	0	0	0	0	0	0	0	0	0	0	0	0							
Food supply	0	0	0	0	0	0	0	0	0	0	0	0							
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0							
Water quality (toxics)	0	0	0	0	0	0	0	-1	-1	-1	-1	0							
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0							
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	-1	-1							
Agricultural diversions	0	0	0	0	0	0	0	-1	-2	-2	-2	0							

Diversions Effects on Delta Smelt - No Action Conditions (NA-EXIST)										WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep							
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0							
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0							
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0							
Handling	0	0	0	0	0	0	0	0	0	0	0	0							
Food supply	0	0	0	0	0	0	0	0	0	0	0	0							
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0							
Water quality (toxics)	0	0	0	0	0	0	0	-1	-1	-1	-1	0							
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0							
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1							
Agricultural diversions	0	0	0	0	0	-1	-1	-2	-2	-2	-2	0							

Diversions Effects on Delta Smelt - Common Programs										WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep							
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0							
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0							
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0							
Handling	0	0	0	0	0	0	0	0	0	0	0	0							
Food supply	1	1	1	1	1	2	2	2	1	1	1	1							
Shallow/ nearshore habitat	0	0	0	0	0	1	1	1	1	1	0	0							
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0							
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0							
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	-1	-1							
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	1							

Diversions Effects on Delta Smelt - Alternative 1										WET YEARS			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0	
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0	
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
Handling	0	0	0	0	0	0	0	0	0	0	0	0	
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0	0	
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1	
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2	1	

WET YEARS												
Diversions Effects on Delta Smelt - Alternative 2												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment												
Hydrodynamics												
Predation												
Handling												
Food supply												
Shallow/ nearshore habitat												
Water quality (toxics)												
Water quality (temperature)												
WQ (salinity)												
Agricultural diversions												

WET YEARS										Diversions Effects on Delta Smelt - Alternative 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

Diversions Effects on Delta Smelt - Existing (Baseline) Conditions						WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
Handling	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	-1	-1
Agricultural diversions	0	0	0	0	0	0	0	-1	-2	-2	-2

Diversions Effects on Delta Smelt - No Action Conditions (NA-EXIST) WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
Handling	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2
Agricultural diversions	0	0	0	0	0	-1	-1	-2	-2	-2	-2

Diversions Effects on Delta Smelt - Common Programs							WET YEARS				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
Handling	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2

Diversions Effects on Delta Smelt - Alternative 1										WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug								
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3									
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3									
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1									
Handling	0	0	0	0	0	0	0	0	0	0									
Food supply	1	1	1	1	1	2	2	2	2	1									
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	1									
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1									
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0									
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0									
Agricultural diversions	1	1	1	1	1	0	0	1	2	2									

Diversions Effects on Delta Smelt - Alternative 2										WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug								
Entrainment																			
Hydrodynamics																			
Predation																			
Handling																			
Food supply																			
Shallow/ nearshore habitat																			
Water quality (toxics)																			
Water quality (temperature)																			
WQ (salinity)																			
Agricultural diversions																			

Diversions Effects on Delta Smelt - Alternative 3										WET YEARS									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug								
Entrainment																			
Hydrodynamics																			
Predation																			
Handling																			
Food supply																			
Shallow/ nearshore habitat																			
Water quality (toxics)																			
Water quality (temperature)																			
WQ (salinity)																			
Agricultural diversions																			



Diverison Effects on Delta Smelt - Existing (Baseline) Conditions					DRY YEARS						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	
Sep											
0		0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	-1	-1	-1	-2	-3	-3	-3	-3	-3	
0	0	0	-1	-1	-1	-1	-1	-1	0	0	
0	0	0	-1	0	-1	-1	-1	-1	-1	-2	
0	-1	0	0	0	0	0	0	0	0	0	
-1	-1	-1	0	0	1	1	1	-1	-1	-1	
0	0	0	0	0	0	0	-2	-2	-3	-3	

Diverison Effects on Delta Smelt - No Action Conditions					DRY YEARS						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	
Sep											
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3	
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3	
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3	
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3	
0	0	-1	-2	-2	-2	-3	-3	-3	-3	-3	
0	0	0	-1	-1	-1	-1	-1	-1	0	0	
0	0	0	0	-1	-1	-1	-1	-1	-1	-2	
0	-1	0	0	0	0	0	0	0	0	0	
-1	-1	-1	-1	-1	0	0	1	-1	-1	-1	
0	0	0	0	0	-1	-1	-3	-3	-3	-3	

Diverison Effects on Delta Smelt - Common Programs					DRY YEARS						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	
Sep											
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
0	0	0	-1	-1	-1	-2	-2	-3	-3	-3	
1	1	0	0	0	-1	-1	-1	-1	-1	-1	
0	0	0	0	0	1	1	1	1	0	0	
0	0	0	0	0	0	0	0	0	-1	-1	
0	0	0	0	0	0	0	0	0	0	0	
-1	-1	-1	0	0	1	1	1	-1	-1	-1	
1	1	1	1	1	1	1	2	2	2	2	



Aug	Sep
-2	0
-2	0
-2	0
-2	0
-2	-1
0	0
-2	-1
0	0
-1	-1
-2	0

Aug	Sep
-2	0
-2	0
-2	0
-2	0
-2	-1
0	0
-2	-1
0	0
-2	0
-1	-1
-2	0

Aug	Sep
-2	0
-2	0
-2	0
-2	0
-1	0
0	0
-1	0
0	0
-1	-1
2	1

Aug	Sep
-2	0
-2	0
-2	0
-2	0
-1	0
0	0
-1	0
0	0
-1	-1
2	1

Aug	Sep

Aug	Sep